

EPFL Master Internship

Computer Science / Mathematics

(M/W) 100%

The cutting tools necessary for manufacturing smartphones, tablets, aircraft, cars and medical devices are high-tech products made on high-precision machines with high-performance software. Rollomatic designs, manufactures, markets, and maintains these production systems worldwide with nearly 350 employees.

THEME OF THE WORK :

“Algorithms for machining surfaces and edges based on implicit data”

YOUR PROFILE :

- Master student, oriented towards software development and mathematics and looking for a part-time/full-time position as an intern
- Good knowledge in software development and object-oriented programming
- Strong interest in domains such as 3D computational geometry or numerical analysis
- Motivation for engineering application in the heart of Swiss-made high-precision industry

YOUR MISSION :

- Define geometrical representations of grinding operations using innovative frameworks and methods
- Generate trajectories to control machine axes during grinding
- Implementation of these concepts in C# or another programming language
- Collaborate with different teams within the company

OPPORTUNITIES :

- This internship project offers you the opportunity to immerse yourself in a unique environment that combines industrial aspects, the development of advanced applied mathematical methods and their implementation
- You will be integrated into a team of professional software developers and mathematicians, following modern agile working methodologies
- Your research and development work brings significant added value to our software solution for our users, contributing to the improvement of core algorithms
- Finally, this research work can possibly continue with a Master thesis, PhD project or employment at Rollomatic

PLACE OF WORK :

- Your workplace will be shared between Rollomatic Headquarter (Le Landeron) and one of our innovation cells: EPFL Innovation Park or Swiss Innovation Park Biel/Bienne
- Partial remote work possible

Application deadline: 31.12.2022

Are you interested in this challenge? Please send your confidential application (EN or FR) to Mr. Jonathan Rochat at j.rochat@rollomatic.ch